GenCore version 5.1.3 Copyright (c) 1993 - 2012 Compugen Ltd.

OM protein - protein search, using sw model

Run on:

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L.P.C.M.G.G.A.F.V.I. VI.Y.D.F.L.K.K.V.L. 298 1 MTEQAISFAKDFLAGGIAAA EYMLISO 18 Someting table. Sequence.

Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters. 283224 segs, 96134422 residues Searched:

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RESULT 1 S03894 ADP-AUP carrier protein T3 - human N;Alternate names: ADP,ATP carrier protein T2 (misigentification); mitochondrial A

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Cozens, A.L.; Runswilder, J.E.

R.Cozens, A.L.; Runswilder, M.J.; Walker, J.E.

J. Mol. Biol. 206, 261-280, 1989

A,Title: DNA sequences of two expressed nuclear genes for human mitochendrial ADP, A,tecteriore number: S0.883; Mulb:8723396, PMTP:2541251

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R.Coc. Natl. Acad. Sci. U.S.A. 85, 377-381, 1988

A,Title: Two distinct genes for ADP/ATP translocase are expressed at the mRNP levi A, Accession: B28116

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67.5%; Score 1041; DB 2; Length 313;

Rest Local Similarity 70.9%; Pref No. 1.9e 84;

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Best Local Similarity 77.0%, Fred. No. 3.5e 97,
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A)Accession 123207
A)Status: Freliminary, translated from 5B/EMBL/DDBJ
A)Access: Preliminary, translated from 5B/EMBL/DDBJ
A)Access: Nature (ypc: UNE)
A)Reclaims: 1313 (MIL)
A)COSS: E(Sergances EMBL F782)A FIFTH 7AA12172 1, 75
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A;Gene: CESP:K01H12.2
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A:Introns: 4/1: 191/2
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Champerlamints: A/8, Ais earlier protein; Are, Air carrier proteir repeat homology
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Best Local Similarity 69.2%; Pred. No. 3.26-84,
Kirdnes JELL Consecution 37, Misseridse, 49, Indils 3
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Well report homology ACPS.
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RESULT 1 ADY3_HUMAN STANDARD; PRT; 298 AA. ID ADY3_HUMAN STANDARD; PRT; 298 AA. AC P12235; 096C49;	01-00:-1989 (RC). 12, Created) 01-00:-1999 (Re). 16, Last sequence update) 15 JUN -1990 (Re). 16, Last sequence update) 15 JUN -20:2 (PC) 41, Last annotation update) ADP,ATP carries protein, liver isoform 12 (ADP/AIP translucase 3) (Adenine nucleotide translucator 3) (ANT 3).	SECZARO UK ANIO: SECZARO UK ANIO: Homo sepiens (Human). Rukaryota; Metazoa; Chordata; Craniata; Verrenata, Euteleustomi; Rukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo. NCBL_TaxID=9606;	SEQUENCE FROM N.A. Duchmed-2541251; MEDLINE-8923555; Puchmed-2541251; MEDLINE-8923555; Puchmed-3-2541251; Cozens A.L., Runswick M.J., Walker J.E.; Cozens A.L., Runswick M.J., Walker J.E.; Thu sequences of two expressed nuclear genes for human mitochondrial Anp/ATP translocase."; Anp/ATP translocase."; J. Mol. Biol. 206:261-280(1989).	[2] SECULDE FROM N.A. SECULD TO TO TS TO T. T. M., BOUCK J., Gibbs R.A., Zhou J., Yu W., Tang H., Mei G., Tsang Y.T.M., Bouck J., Gibbs R.A., Zhou J., Yu W., Tang H., Mei G., Tsang Y.T.M., Bouck J. Jutahases. Submitted (JUL-2000) to the EMbi, Genéral Autahases.											CC
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this SWISS-PROT entry is capyright, it is produced through a collaboration between the Swiss Institute of Bloinformatics and the EMBL outstation—the European Bioinformatics Institution. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this strength is not removed. Singe by and for commercial centifies requires a freeness agreement (Star Hillp-Zywww tab Albertauburent entries an enail to license fibe of)
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                                                                                                                                                                                                                                                                                          FISSUE-Placenta; Mana Citagra Amounts, National C.-D., Baserga P., Wurzel J.; Ru D.-H., Ragan J., Chen S.-T., Chang C.-D., Baserga P., Wurzel J.; Chen B.-T., chang C.-D., Baserga P., Wurzel J.; "The human fibroblast adeniue nucleotide translocator gene. Molecular cloning and sequence";
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Mammalia; Eutheria; Primates: Catarrhini; Hominidae: Homo.
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1. SIMILAKIIY: BELONGS TO THE KITCCHONDATAL CAPPIER FAMILY
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Mazzarolla R.A., Schlessinger D., Chen E.Y.;
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This SWISS FROI cutry is capyright. It is produced through a callaboration between the SWISS Institute of Ricinformatics and the EMBL outstation
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121 JAAGALSUJEVIPLDITAKIAADVOKAGARRIJPRSILGDGLUPTYKSPRIFRALFQGFNUS 180
                                                           TBL VOGTETS KANTENDE LANGEREN STELLE STELLE TELLETE STEET VOORT STELLE STELLETE STELLET STELLE
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16-0CT-2CCL (BL) 40, 19st annotation update)
16-0CT-2CCL (BL) 40, 19st annotation update)
16-0CT-2CCL (BL) 40, 19st annotation update)
17-0CT-2CCL (BL) 40, 19st annotation update 1, (ANT 1).
17-0CC-2CCL (BL) 40, 19st annotation update 1, (ANT 1).
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-1- FOMATH, COMPOSED OF "HORP HOMOLOGICS DOMATHS.
-1- SIMILARITY PELCHYS "FOR MITCHANISMS CARRIER PAMILY.
                                                                                                                                                                      Mitochondrion; Inner membrane: Repeat; Transmembrane; Transport;
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EMBL. E12770; BAA02237 1;
                                                                                                                                                                                                                                                                                                                                                                                         STANDARD
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Length 298:

Fred. No. 26-119;

95 . 34 . 89.68;

Best Local Similarity

Query Mathy

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                                                                                                       61 IPKEQGVLSFWEGNLANVIRYFFTGALNFAFRDRYYQIFLGGVDRHTQFWRYFAGNLASG 120
                                                                                                                           121 GAAGATSLÆFVYPLDFARTRLAADVGKSGTERFRGIGDCLVKITKSDGIRGLÆQGFSVS 180
                                                                                                                                                                                                 181 VQGJITYRAAYEGVYDIAKGMLEDEKNIHIVVSWMIAUTVTAVACVVSYPFETVPPPMMM 240
                                                                                                                                                                                                                                                                        1 MTEQAISFAKDFLAGGIAAAISKTAVAFIEKVKLLLQVQHASKQIAADKÇYKG VPOTVR 60
                                                     241 UNDERFIGNERMIGGIVDGWEKLI KDEGGRAFFKGARSHVLPGMGGAFVLVLYDELKKVI 298
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15-78N-202 (Rel. 41, Last anneration update)
ADP-ATP carrier protein healt, Sheretal Tiscle isoform II (ADP/ATP
translocase 1) (Adenine nucleotide translocator 1) (ANT 1; (MANCI).
SIGDSA4 OR ANTI OF ANCI

    SUBCELLULAR LUCATION: Integral membrane protein, Mitcchondrial

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"Expression and sequence analysis of the mease adecies numberide
translowment and 2 denes.":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hukaryota, Meiazoa, Chordata, Chamiata, Verrebiata, Estelenstomi).
Mammalia: Eutheria: Kodentia: Sciurognathi; Maridae, Murimae, Mus
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MpDLNNE=97059403; FubMed 50-2724;
Elisson J.W., Lt.N., Flancke U., Shapiro L.J.;
"Rapid evolution of human pseudouilus-gad game their mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Strausbeig E., stransbeig F., stransbeig von Stansbeig Anders. submitted (APE-1992) +6 the EXCHANGE OF ADP AND ATP ACPOSS THE -1- FUNCTION: CALALYZES THE EXCHANGE OF ADP AND ATP
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Laplace U. Foste: F.,
Submitted (SEF-1993) to the EMBL, Genbank, Jubs. databases.
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Submitted (MAR-2000) to the EMBL/SenHank/DDBJ databases.
18; Mismatches 13; Indels
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P48962; C62164;
01-FEB-1996 (Rel 33, Created)
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       Matches 267; Conservative
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PRINTS: PRECEDES MITCHENARIES: C.
Mitchenditon: Inner membrane: Expeat: Transmembrane: Dansport;
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and 4 . Last man 5 . Last 
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12. AAGA SIGIAYI DAFARI BUAAK VERBAR, ERREPEREFEREREREREREN FRANKA 180
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01-NOV-1950 (Rel. 41, Last annotation update)
15-JUN 2002 (Rel. 41, Last annotation update)
15-JUN 2002 (Rel. 41, Last annotation update)
17-JUN 2002 (Rel. 41, Last annotation update)
17-JUN 2002 (Rel. 11, Adenine unclootide translocator 1) (ANT 1).
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-!- FUNCTION. CATALYEES THE EXCHANGE OF AND AND ATP ACROSS THE MITOCHODISAL INNER MEMBRANE.
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between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is ret removed used by and this statement is not removed usage by and for commercial entities requires a incense agreement (Sec http://www.isb-mib.ch/announce/or send an email to license@isb-mib.ch).
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18. The FAZER CONTRACTOR FROM STANDARY CANADA STANDARY POLICY PREMIME 2019 (24.4)

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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Buchinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non profit institutions as long as its content is in no windered and this statement is not removed. Usage by and for commercial entities requires a license agreement (Scc Mitfol/www.lsb-sib ch/Announce) or send an emuli to license@isb.sib.ch).
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 Hildarth C., Saner N., Tanner W.; Hildarth C., Saner N., Tanner W.; "Glucose increases the expression of the ATP/ADP translocator and the glyceraldenyder-f-phosphate denydrogense genes in Chlorella."; J. Blot. Chem. 206:24944-24047(1991).
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| 0.3                          |                |                            |          |          |          |          |          |          |          |           |          |          |          |          |          |          |     |     |                    |      |     |               |              |              |               |          |               |               |               |              |                 |         |
| 297                          | იე<br>C3<br>Пე | *) (                       | 7 C      | 307      | (H)      | 11       | Υ        | 484      | :<br>::  | ž         | 346      | 346      | 346      | 346      | 363      | 26.3     | 353 | 4   | 381                | 381  | 381 | 381           | 766          | 1009         | $\circ$       | (A.)     | 363           | 381           | 330           | 230          | 333             | 3€.0    |
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# AL ECHMENTS

| FO 1      | RESULT 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|           | and only indicated programmed the contraction of the contractions of the contraction of the contractions of the contraction of the contractions of the contraction of the contract |
|           | antiParkinsonian, cytostatic, antidiabetic, antico                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|           | antipsoriation cerebroprotective therapeutic, son                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|           | Alzheimer's disease, Parkinson's disease, Huntingt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| 3         | mitochondrial Appeabalopathy: lactic acidosis, sti                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

convulsant; neuroleptic, creening, psoriasis; gton's disease; dystonia hirophreria; MELAS; apoptosis, MPT, cancer, ... Poudrid, ADP, ATP, incommunity of the phatographs of the problem of sorder: mitochondial diabetes and deafness, byperproliferative d'sorder: myochonic epileps, red raqqed fibre syndrome. roke; MIDD; WOTHOMPERATORAL Homo sapiens. 

99W0-US25883. 03-NOV-1999; 11-4AY-2000.

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The parent discloses a method to produce adendar nacted the transported (AN) processes on ANI tuston process with recombinant expression a firstructa. ANI is a unclear encoded protein and a rajor engineer to the transport and adendates of the randoctory of definition and an expension definition and an expension of the sphares across the mit observed into mitochemical permediatory transport in momentary of species. As a monotonial respective of species and a second to detect or isolate and to, or interest with it. He ANI binaries are used to detect or isolate ANI in a biolotical sample, and therapentically for
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The present sequence represents human adentine nucleotide translocator 3 (ANI-1) protein. ANI proteins are mitochondial perfectivity transfiling transfiling transfiling transfiling transfiling transfiling transfiling transfer components responsely for mediating transfer of ADF across the mitochondrial inner membrane. ANT proteins interact with other mitochondrial core components e.g. cyclophilins to
 New nucleic acid expression constructs, useful for seteening for awards that after mitochondrial permeability fransition (MPT), comprises polymorborde encoding MPT polymorborde encoding MPT polymorborde encoding MPT polymorbord in polymorbord encoding MPT polymorpor insection energy transfer molecule.
 transition and/or alter the interaction between micochondrial core
components. The methods are useful for screening for agents that alter
NFT and/or velt screivel. These agents are useful for the prevention or
 trediment of diseases asseciated with altered mitochendrial function or dysfunctional cell survival, such as Alzheimer's disease, diabetes
 polymucleatide encoding a milrodondilai pore component polypoptide (e.g. Ant) fused to an energy transfer molecule (ETM) protein (c.g. green fluorescent protein (GPP) or a FLASH sequence). The movel expression construct can after mitochondrial membrane permeability
 Human; adenine mottentide translocator 3; ANT-3; MTP; eyelophilin; mitochondria; permedality translocat pare component, cll sarvial, mitochondrial core component; mitochondrial related disorder; cancer; mitochondrial related disorder; cancer; mitochondrial content of also asset disorder.
 requists MPT. The present intuction relates to a nowell modern acts expression construct comprising a promoter personly linked to a
 metitus, Farkinson's disease, Hantington's disease, schizophichia, mitochonicial encephalopathy, lactic acidosis, stroke, hyperprofilerative disouders c.q. cancer, and doaffacs.
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 Human adenine nucleotide translocator-3 (ANT-3) protein.
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O; Caps 1 MIBÇALSTAKDELAGCIANALSKTAVAFIEDÇPTILÇVQHASPÇIAAFPÇYFSIVDGLVE 60 100 0%: Score 1543; DB 22: Length 298: Tride) s ; Fred. NO. 4.8e 157; 0; Mismatches 0; 100.0%; Matches 293, Conservative Best Local Similarity

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culturing the host cell. (1) is also useful for targeting a polypeptican of interest to a mitochendrial membrane, where ANY polypeptide is expressed as a lusion protein will the perlypeptide of interest Recombinant ANY polypeptide, or cells expressing the polypeptide. Is useful for identifying an agent that binds to an ANY polypeptide. ANY professing the presence of an ANY polypeptide. ANY professing is useful for determining the presence of an ANY polypeptide. ANY from a biological sample, where the ANY liquid is occidently or nor covilently bound to a solid plass. Detectably labeled ANY liganed is contently or nor overlently bound to a solid plass. Detectably labeled ANY liganed is also useful for identifying an agent that interacts with an ANY polypeptide. The present sequence represents the amino acid sequence of human ANY3. The invention relates to a recombinant expression construct (1) comprising a regulated promoter operably linked to a nucleic acid enough on a decime nucleolide translocator (ANT) polypeptide. ANT processes mediate the exchange of AIF symbolsised in the millocate of an exchange of the symbolsised in the millocate of the matrix for ADP in the explosel. (1) is useful for producting recombinant ART polyperiod. Example 3; Fig 2; 147pp, English 

Navel teconditional expression construct for producing admine nucleotide translocator polypeptides, compulses a regulated promoter linked to not oil and encoding the polypeptide. Stabo TP; 121 GAAGATSLOPVYPLDPARFPLAALVSKSGIEPPPGLGF71 VYTTKSDGIRGL) OGFSVS 180 181 VQGILIYRAATEGVYDTAKGMLEDEKHTHIVVSWMTAQTVTAVAGVVSYFEDTYPPRMMM 240 181 VQGIIIYRAAYFGVYDIAKGMLPDPKNT4IVVSWMIAQTVTAVAGVVSYFFDT"7RKRMMM 240 61 IPKFQGVLSFWPGNLANVIPYPPTQALNFAFKDKYKÖİFLGGVDKHTQFWRYFLGNLASG 120 241 USCPREALIMITETVEPWERTEFFESCRAFFKGAWSNYLECMSCAFVLVLYDFIKKVI 298 241 ÇSGEKÇAZIMYTET UNYMPRI PELESGRAFFRGAMSNVI,ROMGGAFULVI DELKKVI 298 Wiley SP. Millor SW. Human adenine nucleotide translocator 3 (ANT3). Human; adenine nucleotide translocator; ANT; W. Davis RE, Cluvedger W. W. Moos WH, Pei Y, Carroll AK; AAU10380 standard; Protein, 298 AA mitcchondrial matrix protein. 11 NAY 2000; Johnshambers 27. 11 MAY-2001; 2001WO-HS15416 (first entry) WPI; 2002-1655-48707. N-PSDB; AAS16590. (MITO-) MITOROR. WO2(0185944-A2. Homc sapiens. Anderson CM, 14-FEB-2002 15-NOV-2001. Ghosh SS, RESULT 4 AAU10380 qq ώ ò õ

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The patent discloses a method to produce adenine nacheologe translocator (ANY) proteins or ANY fusion proteins using recombinant expression constructs. ANI is a nuclear encoded protein and a major component of inner mitochondrial annulates transport of adenosine differ, phosphates across the nitochondrial inner membrane and also serves as an important molecular component of the mitochondrial procession in majority is made to make the majority of adenosity of transportant moleculars and applicate. ANY is used to insent principle, and therapeutically for detect or isolate ANY in a biological sample, and therapeutically for
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 and Huntington's diseases, gamest, psoriasis, diabetes, dystonia,
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 Human adenine nucleotide translocator-2 (ANT-2) protein.
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 Maim 45; Page 172-173; 175pp; English.
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 AAU01199 standard; Protein: 298 AA.
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The present sequence represents human obstine collection translocators (ANI-2) protein. ANT proteins are mitochondrial permeability transfer that sities (M.T.) pure sequences the responsibility of ANI proteins in the sequence of the responsibility of ANI proteins interact with other mitochondrial inner membrane. ANI proteins interact with other mitochondrial order one properties of a cyclophilins to requisit MPT. The present invention relates to a novel nucleic acid expression compensation of promoters operably linked to a polynoclockide encoding a mitochondrial power component polypoptide (e.g. ANI) fused to an energy transfer molecule (ETM) protein
 New auchtic will expression constructs, useful for screening for agents that alter minochondrial permeability transition (MPT), comprises pulyactectide encoding MPT polypoptide or cyclophilin polypoptide fused to energy transfer molecule.
 explossion enstruct can alter uniquefundrial mechanic refreability transition and/or alter the interaction between mitochondrial core components. The methods are useful for specific for agents that alter MPT and/or cell survival, these agents are useful for the prevention or treatment of discases associated with altered mitochondrial function or
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 61 IPKEQEVLSEWRENLANVIRYFPIGALNFAFKDRYKGIFLGGVDKRTQFWRYFAGNLASG 120
 121 SAACATSLOEVYPLDEAPTPLAADVSKSGTEPEFPGLGPGLVKITKSPGTPGLYQGESVS 180
 green fluorescent protein (GFP) or a FLASH sequence). The novel
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 MTEGATSFAMTHY AGGIAAATSFTAVAPTFBVKLLLÇVÇHASKQTAADKQVKCTVDCLVR 60
Human; adentue nucleotide translocator 2, ANT 2, MTF; cyclophilin; mitochondrial permeability transition pore component, cell survival; mitochondrial core component; mitochondrial related disorder; cancer; Alzheimet's disease, diobetes mellitus; hyperproliferative disorder.
 dysfunctional coll survival, such as Alzheimer's disease, diabetes mailitus, farkincol's disease, Hutlington's disease, schirophrenia, mitochondrial encephalopathy, lactic acidosis, stroke, springholifetative disease, and deafness
 Wiley SE, Andreyev AY, Frigeri LG;
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 Score 1454, PB 22,
Pred. No. 1.7e-147;
 13; Mismatches
 Disclosure, Fig 2; 185pp; English.
 94.2%,
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 The patcht discloses a method to produce adenine nucleotide translocator (ANT) proteins of ANT fusion proteins using recombinant expression constructs. ANT is a nuclear encoded protein and a major component of inner mitochondrial membrane. It mediates transport of adenosine
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 121 GAAGATSLCEVYPLDEARTRLAADVSKSGTFPFFRGLGDCLVKITKSDGIRGL'QGFSVS 180
 Human; adentue nucleotide translocator-1; ANT-1; MTP; cyclophilin; mitochondrial permeability transition pose component; cell survival; mitochondrial core component, mitochondrial related disorcer; cancer; Alzielmer's disease; diabeles mellitus; hyperproliferative disorder.
 61 1PREQGVLSFWRGNLANVIRYFFTQALNJAFKDKYKQ1FLGGVDKHTQFWRYFAGNLASG 120
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 Buman adenine nucleotide translocator-1 (ANT-1) protein.
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 Murphy AN, Clevesger W,
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The invention relates to isolated polynucleotide (1) and proposed (1) sequences. (1) is useful as hybridisation probos, compared to the polymentase chain reaction (PGR) primars, oligomers, and for chromosome and gene mapping, and in recombinant production of (11). The polynucleotides are also used in diamost production of (11). The compared is gene through techniques of restore normal activity of (11) out to treat disease states involving to restore normal activity of (11) out to treat disease states involving or constitution and its simple partners are useful in medical consistences and polymeptide in tissue, as solectura weight markers and as a rock supplement. (11) and its binding partners are useful in medical consorders involving aberrant protein expression or biological activity. (12 and (13) and (11) are useful for treating disorders involving aberrant protein expression or biological activity. (12 and for produce involving aberrant protein expression or biological activity. (13 and for produce other types of disorders in other types of disorders and produced disorders are the produce of activity of and response of activities and response of activities and response of the produce
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 Claim 20; SEQ ID No 45732, 163pp, English.
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 30-MAR-2001; 2001WO-US08531.
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 (II). (II) is useful for generating antibodies against it useccing or quartifating a polypeptide in lissue, as molecular weight markers and as a food supplement (II) and its linding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful in medical district: insolving about the test of the sequences have applications in the polypeptide and polynocleotide sequences have applications in disquosities, forensies, game mapping, identification of mutations in disquosities, its greater discharge in that is to assens broatversity responsitive, its greater discharge in that is the desemble on DNA and
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responsible for genetic disorders or other traits and to assess
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SUMMARIES

| Description                   | Sequence 10, Appl | Sequence 339, Ap | Sequence 2, Appl | ÷            | ···ì   | · ;         | 2,6   | Sequence 36, Apr  |         | 51,   | Ť                 | Ę          | Sequence 51, App | ۲,    | 1, 1 | ·              | **      | 4        | cì   | Sequence 2, · App! | C)             | 4                                                                  | ei<br>en   | CI<br>C                                 | 12,      | 36,  | Sequence 37. Appl |
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| رن    | 9 3 G G              | 74.7     | 303                            | C)             | ns-na-an7-861A-37  |                | Appl   |
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| 9     | 33<br>33<br>73<br>74 | 11.7     | ¥ () ¥                         | 154            | 115-08-470-868A-37 | Secuence 37, 1 | App    |
| C     | 22.6                 | 14.7     | 301                            | Ψ,             | US-09-210-681-37   | Sequence 37, 7 | App]   |
| -     | 226.5                | 14.7     | * Ú*                           | ~              | 115-08-446-719A-37 |                | Appl   |
| i Ca  | C1<br>  C1           | 14.4     | 000                            | 4              | 115-04-501-558-4   | Secuence 4, A  | pp] i  |
| e:    | 211                  | 12.7     | 306                            | L <sup>2</sup> | prin-mg44-n9799-1  | м,             | App1 i |
| 34    | 205.5                | 13.3     | 307                            | 7              | US-U8-807-861A-56  |                | Appl   |
| U.    | 3 600                | •        | 4017                           | ٦.             | 48-04-210-581-56   |                | Appl   |
| ψ     | 205.5                | (F)      | 307                            | œ.             | 115.08-946-719A-56 |                | Appl   |
| · [-  | 138.5                | 6.<br>CH | 351                            | C1             | ng08-933-750C-19   | Sechence 19,   | Appl   |
| œ     | 198.5                | 12.9     | 351                            | 4              | US-04-234-613-19   |                | Apri   |
| or.   | 193                  | C4       | 328                            | 4              | US-U9-U58-140A-15  |                | App    |
| 0     | 191                  | 12.4     | 937                            | C1             | US-09-937-466-6    | Sermence 6, A  | \pp!   |
| _     | 5                    | C        | )<br> <br> -<br> -<br> -<br> - | ۲.             | 11g-04-172-528-6   | Sectuence 6, A | Appli  |
|       | 151                  | 12.4     | 7.5                            | ~              | ns-na-318-109-6    | Sequence 6, A  | Appli  |
| en en | 191                  | 12.4     | 256                            | 4              | 9-64-204-60-80     | Sequence 6, A  | Appli  |
| 44    | 181                  | 11.7     | 583                            | 4              | US-09-068-140A-10  |                | ApF.   |
| L.    | 180.5                | 13.7     | 315                            | ۲."            | US-09-188-930-142  | Sequence 142,  | APP    |

# ALIGNMENTS

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APPLICANT: Wallace, Douglas C.
APPLICANT: Graham, Brett H.
AFFLICANT: Grant P.
TITLE OF INVENTION: Mouse Lacking Heart-Muscle Adenine
TITLE OF INVENTION: Mouse Lacking Heart-Muscle Adenine
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 COMPUTER: IBM PC compatible CPEPATING SYSTEM: P^-bos/MS-Fos SOFTWARE: Patentin Release #1.0, Version #1.30
 Greenlee, Winner and Sullivan, P.C.
 STREET: 5370 Manhattan Circle, Suite 201
CITY: Roulder
 710,030,017
 115,708,7961,871
US-08-961-871-10
; Sequence 10, Application US/08961871
; Patent No. 6013858
 33,878
 TELEPHONE: (303) 499-8080
TELEFAX: (304) 499-8089
INPORMATION FOR SPQ ID NO: 10:
 FILLING DAFF: 01-NOV-1996
ATTOPNEY/AGENT INFORMATION:
 31-OCT-1997
 Floppy disk
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 CUPPENT APPLICATION DATA .
APPLICATION NUMBER . US,
 NAME: Ferber, Donna M. FEGISTRATION NUMBER: 3
 LENGTH: 298 amino acids
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US-08-961-871-10
 PRIOR APPLICATION DATA:
 COMPUTER READABLE FORM:
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EARLIES AFFICATION NUMBER: BF 98131655.8
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EARLIES PLING LABE: 1992-07-02
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BARLIES PLING LABE: 1992-07-02
SOFTWARE: FORLSEQ for Windows Version 3.0
 RESULT 5
US-09-160 119-2
Sequence 2, Application 02,09-609198
Pateric No. 62-8219
GENDRAL INFORMATION:
 APPLICANT: KRIEF, SIEPHANE
APPLICANT: SOCCHET, MICHEL
APPLICANT: BELL, ANTOINE
ITILE OF INVENTION: NOVEL COMPOUNDS
FILK REFERENCE: GH-30985
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APELICANT: Tailaglia, Louis A.
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 127 CAMAVICACPIDVVKVPFQASIHLEPSPSRPRYSGIMDAYPIIAPEFGVPGIWKGILPNI 186
 182 QSIIIYRAAVYEGVYDTAKGMLPDPRNTHIVVSWMIAQTVTA--- VAGVVSYPFDTVPR 236
 207 EMMAGSORGADIMYIGIVEGWERTFFIRETGRAFFRAAWINVI.F-GMGGAFVLVLYDELK 295
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 FF COULSIAM SULANVIRYEFTGALMEAFFERYEGIFF GGVFAHTGEWFYFACNLASGGAA 103
 124 GATSLCHVYPLURAPTPLAADV--GKSGTFPFFRGLØFCLVKTTKSDGTRGLYQGFSVSV 181
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 12 IMAVKPI GAGTAACEADLVTFPI IITAKVPI ČI ČRENÇAVČTAPI VÇYPGVI GI İLTMVRT 71
 CURPENT APPLICATION NUMBER: IIS, 09,142, 565A
 SAFTER FILING DATE: 1997-07-16
NUMBER OF SEQ ID NOS- 6
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 NUMBER OF SEQUENCES: 57
COPPESPONNENCE ADDRESS: ADDRESSEE: Pennie & Edmonds
STREET 1155 Avenue of the Americas
CITY: New York
 EARLIER APPLICATION NUMBER: 9705614 7
EARLIER FILLNC DATE: 1907-03-18
EARLIER APPLICATION NUMBER: 97305305.1
 EARLIER APPLICATION NUMBER: 9704551.2 PAPLIER FILING DATE: 1997-03-05
 MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC compatible
OPEPATING SYSTEM: PC-FOS/MS-FOS
 Sequence 56, Application US/08518878B patent No. 5702902
 APPLICAN: Let. ...
APPLICANT: Kelly Paine
APPLICANT: Robert James
TITLE OF INVENTION NOVEL COMPOUNDS
TITLE OF INVENTION NOVEL COMPOUNDS
Sequence 2, Application US/09142565A Paront No. 6187560
 1999-06-30
 GENERAL INFORMATION.
APPLICANT: Lee James Beeley
 COMPUTER READABLE FORM:
 ; TYPE: PRT
; OPGANISM: HOMO SAPIEN
US:09-142-565-2
 New York
. U.S.A.
 GENERAL INFORMATION:
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APPLICANT: Tartaglia, Louis A.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
LITLE OF INVENTION: RESULATION OF BODY WEIGHT PISSEMERS, INCLUDING GRESTLY
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 191 CAELVIYDLIKDALLEANLMTEDLPCHFTSAFGAGFCTTVIAS PVOVVFTFYM···· 243
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 12 FLEGGLAAAISPTAVAPIEDVMIIIQVQHASK -- ÇTAADRQYMGIVDYIVPIPKEQQVI, 68
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 CORRESPONDENCE ADDRESS.
ADDRESSEE. Pennie & Edmonds LLP
STREET. 1155 Arense of the Americas
 APELICATION NUMBER, $5.5% A.7, 881A
FILING DATE: 26 FPR 1947
CLASSIFICATION: 514
PRIOR APPLICATION DAIA:
APPLICATION NUMBER: US 08/518,876
FILING DATE: 23-500-1995
APPLICATION HOBBER, US 02.47-28.53
 A.
30,742
 APPLICATION NUMBER: US 59/531,52:
FILING DATE: 23-AUG-1994
ATOONEET/AGENT INFORMATION:
 Floppy Alak
IBM PC compatible
SYSTEM: PC-1055/MS-105
 Application Extragation:
 FELEPHONE: (212) 790-9090
TELEFAX. (212) 965 5711,78364
TELEX: 66141 PENNIE
 TRUBBOMBUNICATION INFORMATION:
 INFORMATION FOR SEG ID NO: 51:
 06-JUN-1995
 NAME: Coruzzi, Laura A. RESISTRATION NUMBER: 30, REFERINCE/COCKET NUMBER:
 LENGTH: 309 amino acids TYPE, amino acid STRANDEDNESS, single
SECHPACH CHARACTERISTICS
 COMPITER READABLE FORM:
 FILING DATE: 06-JUN APPLICATION NUMBER:
 unknown
 NUMBER OF SEQUENCES.
 New York
 OPERATING SYSTEM.
 COJNIKY: U.S.A.
ZIP: 10036-2711
 GENERAL INFORMATION:
 New York
 Patent No. 5853975
 MEDIUM TYPE
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 US-08-807-86 A-51
 COMPUTIER:
 APPLICANT:
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APPLICANT: Tartaghia, Louis C. HAPLICANT: Tartaghia, Louis C. HELL OF INVENTION. Compositions and Mcthods for the TITLE OF INVENTION. Theatment of Rody Weight Disorders, Including ches by CORRESPONDENCE ADDRESS:
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 189 AATEGYT TAK + + + + - OMIBTE FRIETVSWMIAGTVTAVAGTVVSYFFFTVEPEMMMCS - 212
 191 GAELVIYPLIFDALI KANLMTDDLPCHFTSAFGAGPOTIVIAS ----PVDVVKTPYM--- 243
 77 SLYMSLVASLQE,MSFASVE171YISVPÇPYTRG-SEHAS----TGSFLLASSTTGALAV 131
 129 CLYVYHALA AFTELAADVAKSGTIFFFFFGIGIVRITKSIMIRGIYQGFSVSVQGIIIYR 188
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 10 FLAGGIAAA!SKYAVAFIERVKIILGVQHASK---QTAADVQYKGIVDCIVRIPKEQGVL 68
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16.2%, Secre 250.5, D3 3; Length 309;

Rest Local Similarity 24.9%, Fred. No. 4.96-20;

Matches 74, Conservative 52, Mismatches 146, Indels 25,
 Patentin Release #1 0, Version #1 30
 PECISTRATION NUMBER: 30,742
PEEFFUNE; PRIMER: 75F DOXI 999
TELECOMMUNICATION INPORMATION:
 ., verice: US.UB/470,868A
06-170-1995
 ADDRESSEE: Pennie and Edmonds
CTPEET, 1155 Aronic of the Americas
 Setable St. Aptilation TS,08179868A Patent No. 5861485
GENERAL INFORMATION:
 HEDIUM IYEE, Floepy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-1005/MS-100S
 ATTORNEY/AGENT INFORMATION:
 LENGTH: 309 amino acids
TYPE: amino acid
STRANDEDNESS: single
 CUPPENT APPLICATION DATA: APPLITATION NUMBER: 115
 NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30
 SEQUENCE CHARACTERISTICS:
SECUENCE CHARACTERISTICS
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 COMPUTER READABLE FORM: NEDIUM TYPE. FLOPPY
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 amino acid
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 FILING DATE: 06
CLASSIFICATION:
 USA
 STRANDEDNESS:
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J. J. J. Salver, J. J. Henry Community and Service S. S. Salver, Co.

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 APPLICATESN NUMBER, DE SPERIESE.
ETLING SALP: 26 FEB 1997
APPLICATION NUMBER: DE ON SESSERE
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 COMPUTER: TBM PC Compartb.c
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FILEN'S DATE: 6 BIN 1995
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 APPLICANT: Gong, Weilong
APPLICANT: Emangel, Beserly E.
APPLICANT: Budantf, Marria L.
APPLICANT: Budantf, Marria L.
APPLICANT: Budantf, Marria L.
IITLE OF INVENTION. Ec. 5935783cl Ganco Mapping in the Digeorge and
IITLE OF INVENTION. Velicoardiofacial Syndrome Minimal Critical Pegion
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
 131 ZVAQZELVEVEVELAK, AKAZSTERVESTVENTETETA ERESTER BINEST ET BARBANTET 193
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 19 JEWALINLANVENTELLLALGEASSTETETITI TIVITETTENEVERTEAGH ASGGAAGAISL 128
 129 CIVYYLLDEARIELAALVOKSGIEREFEFGLOPTIVETERSEGIFGLYQOPSVSVQGIIIYR 188
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 12 FLACGIAAAISKTAVAPTFFVKITLQVQHASK---QTAADKQYKGIVDCIVPTPKBQGVI 68
 17 FIGAGTAACIABLITEPLBTAYVPTQTQCPSQCPVPATVSAQYPGVMGTILTMVPTEGPR 76
 243 CEKSADIMYTGTVDGWEKIPPDEGGKAFFKGAWSNVIP-GMGGAFVI-VLYPBIKKVI 298
 24: ABALGUSSAGBGALTHIGGEBARTEG, HISH ELISHWANEVINEGEBAL 298
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 ADDRESSED. Wandouck Washings Fort Mitterious & ADDRESSED. No. 593598ris, LEP
STREET One Liberty Flace 46th Floor
CITY: Philadelphia
 COMPUTER: IBM PC compatible
OPPKALING SYSIEM: PC-505/PB-505
SOFTWAKE: Patchuln Kelease #1.0, Version #1.30
APPLICATION NUMBER: IS,08,775,509
 Sequence 33, Application US/08775009
Patent No. 5935783
 AFFOLD ATTENDED TO THE TATE OF
 REFERENTE/SOCKEL NUMBER (18)
TELECOMMUNICATION INTORNALION:
TELEPHONE: (215) 568-3400
TELEPAX: (215) 568-3439
 Floppy disk
 311 amino acids
 SEQUENCE CHARACTERISTICS:
 INFORMATION FOR SEQ ID NC:
 ; TO ADLACK: Timear
; MonECULE TYPE: protein
US-08 775-009-33
 Dyte: amino adid
STARK-HONESS, sinale
TOFOLOGY: linear
 COMFUTER READABLE FORM. MEDIUM TYPE: Floppy
STRANDEDNESS: single
 ; STRANDEDNESS: Sinc
; TOPULUII, MIKHOWN
US-08-946-7198-51
 GENERAL INFORMATION:
 U.S.A.
 189 AAYESVYETAK
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 US-08-775-009-33
 COUNTRY:
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 127 SLCIVYYPLDFAPPIAADVGKgotpppp/PgjopvlVkjitkSlatikdjfygdfSvSQGIII 186
 135 AVVVVCPMETVKVKFIHD - QTSSNPKYPGFFHGVRFTVREGGLKGTYGGLTATVLKQGS 193
 18. NEMAKESANI-TAKSMELELEFNIHIVVSWAMINGTVTAVAGVVSY - FFIVEFFMAMSS 242
 194 NQAIRFFVMTSLRNWY-QGDNPNKPMNPLITGVFGAVAGAASVFGNIFLDVIKIRMQGLE 252
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Query Match
Best Eccal Similarity 27.6%: Pred. No. 4.9e-20;
Matches 82; Conservative 55; Mismatches 135, Indels 27, Gaps
 7) IMEGNIAKVIRYFTTQALBFA FEBENYFQIFLGGVTKHTQFWFYFAGNLACGAAGAT 126
 10 PPFFAGGIAAATSPTAVAPIEPVKLLIOVÕHASKQIAADKQYKGIVDGIVRIEKEQGVUS 69
 2º KALLAGGI AGSIFITITEPTEVVKTÖLGIP --EPANPPRYRGIGDÖVROTV RSHGVLG 82
 24) CERCADIMYTCIVECMPRIPPOPOGRAFEKGAWSNVLP-GMGGAPVIVIYDELKKVI 298
 253 AHE----YENTLEGGVQILKNEGPKARYKGTVPRIGRVCLDVAIVFVIXDEVKEL 304
 7.3018 22.
 15.9%, Szere 34%, DB D; Length 432; 26.8%; Pred No. 3.46-19; ative 50; Mismatches 344, Tud-18 3
 Patentin Release #1.0, Version #1.30
 CORRESPONDENT ADDRESS:
ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
STREET: 75 DENISE DRIVE
 HS/N8/937,466
 CALF: 75.20
COMPUTER READABLE FORM: MEDIUM TYPE: FIDEPY dist
COMPUTER: 16M PC compatible
COMPUTER: 16M PC compatible
 APPLICANT: Zhanq, Ning
APPLICANT: Amaral, M. Catherine
APPLICANT: Chen, Jin-Long
TITLE OF INVENTION: UCP3 Genes
NUMBER OF SPQUENCES: 6
 Sequence 4, Application US/08937456
Patent No. 5846779
 FEFEPFUCE/POCKET NUMBER 193
 36,627
 TELEPHONE: (650) 343-4341 IELEPAX: (650) 343-4342 INFORMATION FOR SD ID NO: 4: SEGUENCE CHARACTERISTICS:
 ATTORNEY/AGENT INFORMATION:
 432 amino acids
 NAME: OSMAN, RICHARD A
REGISTRATION NUMBER: 36
 Conservative
 CURRENT APPLICATION DATA:
 single
 MOLECULE TYPE: peptide
 STREET: 75 DENGE CITY: HTLISBOROUGH STATE: CALIFORNIA
 Quest Match
Bost Local Similarity
Tabos 79; Conserv
 amino acid
 linear
 GENERAL INFORMATION:
 CLASSIFICATION.
 USA
 STRANDEDNESS
 FILING DATE:
 9401
 TOPOLOGY:
 SOFTWARE:
 US-08-9:7-466-4
 COUNTRY:
 US-08-937-466-4
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SUMMARIES

| Result<br>No.  | 31.012    | Query     | Query<br>Match Length DB | 12<br>12    | <u>13</u>              | postription        |
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Patent No. US20010044144AL
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Willer, Scott W.
Stabe, Terrar E.
Ghosh, Soumitra S.
 APPLICANT. Anderson, Christen M.
 Moos, Walter H.
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 Davis, Robert L.
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CORRENT APPLICATION NOMBER: US/64/734,509
 APPLICANT: Sherman, Amir
APPLICANT: Silva, Joff
APPLICANT: Silva, Joff
APPLICANT: Summers, Eric
TITLE OF INVENTION: Methods tot improving Secondary Metabolite Production in Fungi
FILE REFERENCE: 109272.147
CURRENT APPLICATION NUMBER: 18,778,781, 668
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NUMBER OF SEQ ID NOS: 181
 CURRENT FIGURE DATE: 2003-03-07
PRIOR APPLICATION NUMBER: US 097487,558
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APPLICANT: Cirpus, Forra
APPLICANT: Bischoff, Friedrich
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 Freund, Annette
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48.6%; Score 749.5; DB 10; Length 386; 53.4%; Pred No 9 5e-69;
 93.6%, Score 518; DB 16; Length 132: Best Local Similarity 96.9%; Fred No. 9.1e-46; Malches 193, Cosservative 6; Mismatches 4; Indels 6
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 CURRENT FILLING DATE: 2001-08-10
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PRIOR FILLING DATE: 2006-03-08
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 NUMBER OF SEQ ID NOS: 1694
SOFTWARE: Patentin Ver. 2.0
 ORGANISM: Homo sapiens
 GENERAL INFORMATION:
 LOCATION: (126)
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#### SUMMARIES

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 241 ÇSÇRKGAYTMYSÖTTTÖMMEKTARIQESPAPPPCAMSAVI,PCMAGGEVIVIYDPLEKRYT 298
 Eukaryola, Melazoa, Chordála, Craniata, Vertebrata, Euteleostomi:
Amphibia: Batzachia, Amora, Neckatrachia, Baroldoa, Fanidao, Fana.
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 pupanyora, Merażog, Chorddio, Cranista, Vertebrata, Buteleostomi,
Amphibia: Batzogóbia, Abura, Neobatrachia, Panoidea, Panidae, Pānā
 81.6%; score 1259; 58.1%; bength 317, 86.9%; Prof No. 3.56-190; true 19; MacMatches 17. Indias v
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Lucilia cuprina (Greenbottle fl) (Australian sheep blowfly).
Eukaryota; Metazoa; Arthropoda; Trachesta, Hexapoda, Insecta;
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 125 AUSLOPVYPLEPRAPPLAADVORSGTEPPPPOLIGEOLVKITKSDGLMGLYGG-SVSVQGI 184
 Chen Z., Fair J.A., Batterham P.; and coase of Lucilia cuprina."; and chen encoding the Abb/AIP translocase of Lucilia cuprina."; submitted (PPC-1999) to Libe EMBL/GenhamA.pEBJ databases.

SUBCELLUAR FORMION: INTERPAL MEMBERARE PROTEIN MILICHONDRIAL
 1; Gaps
 5 AISTAKBILASGIAAAISKIAVAPIIPPVFILLIQVQHASEQIAADEQYKGIVUPTVRIPKE 64
 7 AVGEVEREAGG SAAVSKTAVAPIERVKLILDOVOH: SKOLSPINKOYKOMVICELREPKE 5-6
 STRAIN-BERKELEY;
Stableton W. Brokstein D., Hong L., Adbayani A., Carlson J.,
Charpe M., Chayor C., Dorsett V., Dresnek D., Farfan D., Erise B.,
Chaype P., Ginspirs M., Chazis H., Frommiller B., Li P., Liao G.,
Mirria A., Mangali C.J., Harnov T., Parloh J., Paragas V., Park S.,
Partsia A., Mangali C.J., Wang K., Yu C., Lewis S.B., Kukin G.M.,
Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J., Charlet M., Charlet C., Derert V., Parfan F., Filse E., Gerige P., Concoles M., Sparin H., Li P., Liac G., Miranda A., Mungall C.J., Manco J., Farlet J., Faragas V., Park S., Pheushenavorg S., Wan K., Yu C., Lewis S. P., Rubin G.M., Celniker S.; Subnitted (CCT-2001) to the PMRL/GenHank/Dubl databases.
 245 PSADIMITGIVECWPKIPPPEGGKAFFKGAWSNVI.PGMGGAFVLVI.YPELKKVI 298
 1316 RAIEVINERHIERWATIAKOPOTOARFEKSAESKNIETTOTAFVEVEVENDETKVEL 299
 DB 5; Length 249;
 INNER MEMBRANE (BY SIMILARITY).
-!- SIMILARITY: BELONGS TO THE MITOCHONDRIAL CARRIER FAMILY.
EMBL, AF218557; AAE32322.1; -.
 33; Indels
 32909 MW; D31F3E2A70BD59E8 CRC64;
 01-001-2000 (IrEMBErel, 15, Created)
61-071-2000 (IrEMBEREL, 15, Last sequence update)
01-MAR-2002 (IrEMBEREL, 26, Fast annetation update)
 81.3%; Score 1254.5; DB 5.
80.6%; Pred. No. 8.2e-102;
 Pfam; PF00154; mito_carr; 3.
PROSITE; PS00215; MITOCH_CARRIER: UNKNOWN_3.
 Ouery Match
Best Local Similarity 80.6%; Pred. No. 8.2e
Matches 23/; Conservative 23; Mismatches
 InterPro; IPR001993; Mitoch_carrier.
 IPP001993; Mitoch_carrier.
 PFT;
 Calliphoridae, Lucilia.
 F!yaaso: Pagnoonaabo; sesB.
 PRELIMINARY;
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Piczgala: Neoptera, Eudopfersgola: Suplera; Brachycera; Museumorpha:
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180 TQGETVYRAAYPGTYTTVKGMLPDPGATPTTVSWATAQVYTTGAGITSYPFTTVBREMMM 239
 Pterydola: Neoptera: Endopterygota: Diptera: Brachycera; Muscomorpha;
 121 GARGATSLÆFVYPT DEARTRI AADVORSOTEPPEPPGI GDOLVKLITKSLÆLIGT KOGFSVS 180
] MTFQAISFAKDELAGGIAAAISKTAVAPIEEVKLLLQVQHASKQIAADKQYKGIVE^IVR 60
 1. Gaps
 CHIEGRAL MUMPPANE PROTEIN MITOCHONDRIAL
 pg 5; Length 304:
 Enkaryota, Metazoa, Arthropoda, Trachcata, Hexapoda, Inserta,
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ըսկերը մերը Motapoa - Պորզերքո - Մրոտիորժբեր - Ascidlacea:
 01-A06-1998 (TrEMBLrel. 07, Created)
01-A06-1998 (TrEMBLrel. 07, Last sequence update)
01-JGH 2001 (TREMBLrel. 17, Last senciation update)
 01-NOV 1696 (TrEMBLIEL, 01, Created)
01-NOV 1696 (TrEMBLIEL, 01, Last sequence update)
01-NOV 1696 (TrEMBLIEL, 20, 1981 series update)
ADI/ARP LEUSIGERSE.
 76,8%; prof 1176 5. pR 5
75,8%; prod No 5 76-95;
 307 AA.
 304 AM.
 Missatohes
 stolidokranchia, Pyuridoe, Halocynthia
MOBLLTIX (0-7729)
 EMBL; D82069; BAA11765.1;
InterFro: IPRO1993; Miroch_carrier.
:..cefro: IPRO02093; Miroch_carrier.
Pram: PPO0153; Mito carr: 3.
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 97 VLSFWRONLANVIRYEPTQALNEAFKJÆYKQIFEEGUVIRHTGEWRYFAGNIASGGAGAT 126
 72 ESSEWKGNLANVIKYEPIQALNEAFKOVYKSVFLGGVDKHKQFWEHFAGNLASGGAAGAT 136
 1; Gaps
 / SEAGELAGGIAALSKIAVALISHVELITAVGHASKQIAAPKQYKGIVDC VEIPKEGG 66
 17 SFLMDEMMGGVSAATAKTAVAFIERVKLTLQVQEVEKGIAADQRYKGIVPGFIRIPREQG 76
 75.75, 50510 1137.5, 506.5, Long1 297: 74.88, Pred. No. 1.50-91; Five. 26; Mismatches 46; Indels 1:
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 pfam: PP00153; mifo_carr; 3.
PR NIS; PR00926; MITOCARRIBR.
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 Mismatches
Ephydroidea: Prosophilidae; Drosophila.
NCB1_TaxID=7227;
 Inferpro: IPR001993; Mitoch_carrier.
Interpro; IPR002067; Mit_carrier.
 33744 MW.
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 Conservative
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